

U.S. DEPT. OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY DOCKET NO.:

B-1075 F2C2

SERIAL NO.:

08/771,467

APPLICANT:

Van Voris et al.

FILING DATE:

12/20/96

GROUP:

#

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	5,139,566	08/08/92	Zimmerman	71	121	09/15/87

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>M</i>		BORON AS A PRESERVATIVE AGAINST INTERNAL DECAY, Dickinson, Morris, Calver, Distrib. Dev., Mar 1989, v 89:1, p 9-14.
<i>M</i>	?	SOIL FUMIGANTS ARE 'REMARKABLY EFFECTIVE' IN STOPPING DECAY OF WOOD UTILITY POLES, STUDIES AT OREGON STATE UNIVERSITY SUGGEST, Chemical Week, Sep. 25, 1974, p. 39
<i>M</i>		GELATIN ENCAPSULATION OF METHYLISOTHIOCYANATE FOR CONTROL OF WOOD-DECAY FUNGI, Zahora, Corden, Forest Products Journal, vol. 35 (7/8): pp.64-69, 1985
<i>M</i>		GROUNDLINE REPAIR FOR WOOD POLES, EPRI Journal, April/May 1986
EXAMINER: <i>Medley</i>		DATE CONSIDERED: <i>1/20/97</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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List of Patents and Publications for Applicant's

Applicant
P. Van Voris et al.

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Filing Date:
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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
✓	A1	Re 32,356	02/17/87	Cardarelli			
	A2	1,999,458	04/30/35	Hollister			
	A3	2,269,626	01/13/42	C. P. Henry			
	A4	2,970,404	02/07/61	Beaufils et al.			
	A5	3,111,403	11/19/63	Soper			
	A6	3,231,398	01/25/66	Otto Pauli			
	A7	3,235,366	02/15/66	Seymour et al.			
	A8	3,257,190	06/21/66	Soper			
	A9	3,367,065	02/06/68	Cravens			
	A10	3,384,993	05/28/68	C. V. Kane			
	A11	3,502,458	03/24/70	Schenk			
	A12	3,551,192	12/29/70	A. J. Reinert			
	A13	3,592,792	07/13/71	Newland et al.			
	A14	3,608,062	09/21/71	Al.fes et al.			
	A15	3,639,583	02/01/72	Cardarelli et al.			
	A16	3,671,548	06/20/72	Itaya et al.			
	A17	3,691,683	09/19/72	Sterzik			
	A18	3,697,253	10/10/72	R. MacMurray			
	A19	3,705,938	12/12/72	Hyman et al.			
	A20	3,706,161	12/19/72	Jenson			
	A21	3,716,560	02/13/73	Taya et al.			
	A22	3,740,419	06/19/73	C. Campbell			
✓	A23	3,741,807	06/26/73	F. F. Home			
	A24	3,759,941	09/18/73	Sampei et al.			

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** ABSTRACT

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

CHICAGO 145504-1 47309 00025USC1

Form PTO-1449 (modified)

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A25	3,835,176	09/10/74	Matsuo et al.			
	A26	3,835,220	09/10/74	Matsui et al.			
	A27	3,846,500	11/05/74	Kitamura et al.			
	A28	3,851,053	11/26/74	Cardarelli			
	A29	3,857,934	12/31/74	Bernstein et al.			
	A30	3,864,114	02/04/75	Green			
	A31	3,864,388	02/04/75	Kitamura et al.			
	A32	3,867,542	02/18/75	Ueda et al.			
	A33	3,876,681	04/08/75	Okuno et al.			
	A34	3,880,643	04/29/75	Cooke et al.			
	A35	3,891,423	06/24/75	Stanley et al.			
	A36	3,899,586	08/12/75	Okuno et al.			
	A37	3,906,089	09/16/75	Okuno et al.			
	A38	3,939,606	02/24/76	Vandemark et al.			
	A39	3,954,814	05/04/76	Mizutani et al.			
	A40	3,966,963	06/29/76	Okuno et al.			
	A41	3,970,703	07/20/76	Kitamura et al.			
	A42	3,981,903	09/21/76	Hirano et al.			
	A43	3,998,868	12/21/76	Mizutani et al.			
	A44	4,003,945	01/18/77	Kitamura et al.			
	A45	4,007,258	02/08/77	Cohen et al.			
	A46	4,021,122	04/03/77	Krenmayr			
	A47	4,037,352	07/26/77	Hennart et al.			
	A48	4,063,919	12/20/77	Grano, Jr.			

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<i>M</i>	A49	4,065,555	12/27/77	Potter			
	A50	4,077,795	03/07/78	Cooke et al.			
	A51	4,082,533	04/04/78	Wittenbrook et al.			
	A52	4,101,582	07/18/78	Lutz et al.			
	A53	4,102,991	07/25/78	Kydonieus			
	A54	4,104,374	08/01/78	Reuther et al.			
	A55	4,118,505	10/03/78	Kitamura et al.			
	A56	4,123,250	10/31/78	Kupelian			
	A57	4,160,335	07/10/79	Von Kohorn et al.			
	A58	4,172,904	10/30/79	Young et al.			
	A59	4,176,189	11/27/79	Itaya et al.			
	A60	4,190,680	02/26/80	Young et al.			
	A61	4,193,984	03/18/80	Kydonieus			
	A62	4,198,441	04/15/80	Young et al.			
	A63	4,198,782	04/22/80	Kydonieus et al.			
	A64	4,200,664	04/29/80	Young et al.			
	A65	4,205,096	05/27/98	Young et al.			
	A66	4,212,879	07/15/80	Ohsumi et al.			
	A67	4,229,469	10/21/80	Mizutani et al.			
	A68	4,235,872	11/25/80	Tocker			
	A69	4,237,113	12/02/80	Cardarelli			
	A70	4,237,114	12/02/80	Cardarelli			
	A71	4,243,703	01/06/81	Palvarini et al.			
	A72	4,260,626	04/07/81	Carr et al.			

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<i>M</i>	A73	4,263,463	04/21/81	Kitamura et al.			
	A74	4,269,626	05/26/81	Gorke et al.			
	A75	4,272,520	06/09/81	Kydonieus et al.			
	A76	4,279,924	07/21/81	Suzuki et al.			
	A77	4,282,207	08/04/81	Young et al.			
	A78	4,282,209	08/04/81	Tocker			
	A79	4,293,504	10/06/81	Suzuki et al.			
	A80	4,320,113	03/16/82	Kydonieus			
	A81	4,327,109	04/27/82	Mizutani et al.			
	A82	4,336,194	06/22/82	Ohsumi, et al.			
	A83	4,344,250	08/17/82	Fahlstrom			
	A84	4,348,218	09/07/82	Bond, Jr.			
	A85	4,350,678	09/21/82	Palvarini et al.			
	A86	4,352,833	10/05/82	Young et al.			
	A87	4,360,376	11/23/82	Koestler			
	A88	4,374,126	02/15/83	Cardarelli et al.			
	A89	4,376,785	03/15/83	Matsuo et al.			
	A90	4,377,675	03/22/83	Daudt et al.			
	A91	4,400,374	08/23/83	Cardarelli			
	A92	4,405,360	09/20/83	Cardarelli			
	A93	4,435,383	03/06/84	Wysong			
	A94	4,457,929	07/03/84	Kamachi et al.			
	A95	4,496,586	01/29/85	Matsui et al.			
<i>W</i>	A96	4,500,337	02/19/85	Young et al.			

EXAMINER: *Neil Levy*DATE CONSIDERED: *3/01/01*

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ML	A97	4,500,338	02/19/85	Young et al.			
	A98	4,500,339	02/19/85	Young et al.			
	A99	4,503,071	03/05/85	Hirano et al.			
	A100	4,508,568	04/02/85	Fox			
	A101	4,576,801	03/18/96	Parry et al.			
	A102	4,579,085	04/01/86	McGuire			
	A103	4,639,393	01/27/87	Von Kohorn et al.			
	A104	4,666,706	05/19/87	Farquharson et al.			
	A105	4,666,767	05/19/87	Von Kohorn et al.			
	A106	4,680,328	07/14/87	Dohrer et al.			
	A107	4,747,902	05/31/88	Saitoh			
	A108	4,767,812	08/30/88	Chapin et al.			
	A109	4,808,454	02/28/89	Saitoh			
	A110	4,818,525	04/04/89	Kamada et al.			
	A111	4,842,860	06/27/89	Suguira et al.			
	A112	4,886,656	12/12/89	Obayashi et al.			
	A113	4,921,703	05/01/90	Higuchi et al.			
	A114	4,929,497	05/29/90	Mitchell et al.			
	A115	4,971,796	11/20/90	Sjogren			
	A116	5,019,998	05/28/91	Cowen et al.			
	A117	5,083,408	01/28/92	Blom et al.			
	A118	5,104,659	04/14/92	Fishbein et al.			
	A119	5,116,414	05/26/92	Burton et al.			
	A120	5,135,744	08/04/92	Alexander et al.			

EXAMINER: Neil

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
M	A121	5,181,952	01/26/93	Burton et al.			
	A122	5,201,925	04/13/93	Itzel et al.			
	A123	5,292,504	03/08/94	Cardin et al.			
	A124	5,296,227	03/22/94	Norval. et al.			
	A125	5,317,834	06/07/94	Anderson			
	A126	5,439,924	08/08/95	Mills			
	A127	5,449,250	09/12/95	Burton et al.			
	A128	5,492,696	02/20/96	Price et al.			
	A129	5,525,147	06/11/96	Dunstan et al.			
	A130	5,801,194	09/01/98	Voris et al.			
	A131	5,856,271	01/05/99	Catal.do et al.			
	A132	5,898,019	04/27/99	Van Voris et al.			
	A133	5,925,368	07/20/99	Voris et al.			
	A134	6,060,076	05/09/00	Voris et al.			
	A135	6,099,850	08/08/00	Voris et al.			
	A136						
	A137						

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
M	B1	AU A 16980/83	07/19/83	Australia			yes
	B2	AU-B-23427/84	08/09/84	Australia			yes
	B3	AU A 48655/90	08/02/90	Australia			yes
	B4	AU A 62329/90	03/14/91	Australia			yes

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<i>W</i>	B5	AU-B-82443/91	02/27/92	Australia			yes
<i>W</i>	B6	AU A 52454/96	12/05/96	Australia			yes
<i>W</i>	B7	CA 2 070 231 A1	12/05/92	Canada			yes
	B8	DE 1 929 314 A**		Germany			yes
<i>W</i>	B9	EP 0152976A	08/28/85	EPO			yes
	B10	EP 0 286 009 A2	10/12/88	EPO			yes
	B11	EP 0 594 892 A1	05/04/94	EPO			yes
	B12	GB 2 018 593 A	10/24/79	Great Britain			yes
	B13	GB 2 098 541 A	11/24/82	Great Britain			yes
	B14	JP 58 39601	03/08/83	Japan			abstract only
	B15	JP 5811 3102**	07/05/83	Japan			yes
	B16	JP 602 02801 A**	10/14/85	Japan			yes
	B17	JP 6294165 A2**	10/21/94	Japan			yes
	B18	JP 8302080 A**	11/19/96	Japan			yes
	B19	WO 84/02447	07/05/84	PCT WO			yes
	B20	WO 90/14004	11/29/90	PCT WO			yes
	B21	WO 92/03927	03/19/92	PCT WO			abstract only
	B22	WO 95/18532	07/13/95	PCT WO			yes
	B23	WO 97/47190	12/18/97	PCT WO			yes
	B24	WO 98/21960	05/28/98	PCT WO			abstract only
<i>W</i>	B25	ZA 86/1133	02/14/86	South Africa			yes

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Exam. Init.	Ref. Des.	Citation
W	C1	Burton, et al., "A Controlled-Release Herbicide Device for Multiple-Year Control of Roots at Waste Burial Sites," <i>J. of Controlled Release</i> (1985), 8 pages.
	C2	Chang, et al., "Control of Ant Damage to Polyethylene Tubes Used in Drip Irrigation Systems in Hawaiian Sugarcane Fields," <i>International Society of Sugar Cane Technologists</i> (02/01-11/80), pp. 1686-1692.
	C3	Chen, et al., "Approaches to the Improvement of Biological Resistance of Wood through Controlled Release Technology," <i>Proceedings of the 13th Int'l Symposium on Controlled Release of Bioactive Materials</i> (08/3-6/86), pp. 75-76.
	C4	Batelle Technology Transfer Bulletin, "Controlled-Release Chemicals for Inhibiting Plant Roots," 2 pgs. (12/84).
W	C5	Cline et al., "Biobarriers used in Shallow Burial. Ground Stabilization," <i>Nuclear Technology</i> , Vol. 58, pp. 150-153 (1982).
	C6	Hughes, "Controlled Release Technology Inhibits Root Growth," <i>Controlled Release</i>, p. 15.
W	C7	Jury et al., "Behaviour Assessment Model for Trace Organics in Soil: I. Model Description," <i>J. Environ. Qual.</i> , Vol. 12, No. 4, pp. 558-564, (1983).
	C8	Jury et al., "Behaviour Assessment Model for Trace Organics in Soil: III. Application of Screening Model," <i>J. Environ. Qual.</i> , Vol. 13, No. 4, pp. 573-579, (1984).
	C9	Jury et al., "Behaviour Assessment Model for Trace Organics in Soil: IV. Review of Experimental Evidence," <i>J. Environ. Qual.</i> , Vol. 13, No. 4, pp. 580-586, (1984).
	C10	Roseman et al., "Chapter 18: The Use of Controlled Release Herbicides in Waste Burial Sites," <i>Controlled Release Delivery Systems</i> Marcel Dekker, NY (1983).
	C11	Solie et al., "Simulation of Trifluralin in Diffusion in the Soil," <i>Transactions of the ASAE</i> , pp. 1463-1467 (1984).
	C12	Steyaart, "Proceedings, Eighty-Second Annual Meeting of the American Wood-Preservers' Association: Address," <i>Crossties</i> , Vol. 68, No. 3, pp. 45-46, March 1987.
W	C13	Streile, "The Effect of Temperature on Pesticide Phase Partitioning, Transport, and Volatilization from Soil," <i>Abstract of the Dissertation</i> , (1984), 37 pages.
	C14	Van Voris et al., "Long-Term Controlled Release of Herbicides: Root Growth-Inhibiting Biobarrier Technology," pp. 1-19.
W	C15	Probst et al., "Fate of Trifluralin in Soils and Plants," <i>J. Agric. Food Chem.</i> , vol. 15, No. 4, July-August 1967, pp. 592-599.

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Exam. Init.	Ref. Des.	Citation
<i>h</i>	C16	Delcourt et al., Chem. Abst., Cytologia, vol. 41, No. 1, January 1976, pp. 75-84.
<i>h</i>	C17	Lignowski et al., "Trifluralin and Root Growth", Chem. Abst., Plant and Cell Physiology, vol. 76 (1972), pp. 701-708.
<i>h</i>	C18	Chemical Abstracts, 88, 1978: 154553(5), p. 1177.
	C19	

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✓	A2	5,860,266	01/19/99	Martinet et al.			
	A3						
	A4						

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
✓	B1	AU-B-13886/95	08/01/95	Australia			yes
✓	B2	52-72802	06/17/77	Japan			abstract
✓	B3	64-58739A	03/06/89	Japan			abstract

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
✓	C1	Kumar, et al., "The effect ...treated wood," <i>J. Timber Dev. ...India</i> (1977), 23(3), pp. 9-13.**
✓	C2	Baker and Lonsdale, "Controlled Delivery -- an emerging use for membranes", <i>Chemtech</i> , November 1975, pps. 668-674.
✓	C3	Burton et al., "Application of Controlled Release Technology to Uranium Mill Tailings Stabilization", presented at American Nuclear Society Topical Meeting on Waste Management, February 23-26, 1981, Tucson, Arizona, pps. 1009-1021.
✓	C4	Burton et al., "A Controlled-Release Herbicide Device For Multiple-Year Control of Roots at Waste Burial Sites", 10 th International Symposium on Controlled Release of Bioactive Materials, July 24-27, 1983, San Francisco, California, pps. 305-308.
✓	C5	Burton et al., "The Use of Controlled Release Herbicides in Waste Burial Sites", presented at the Eighth International Controlled Release Symposium, Fort Lauderdale, Florida, July 26-29, 1981.**
✓	C6	PNL-3000-6 Nuclear Waste Management Quarterly Progress Report, April through June 1980. September 1980. Prepared for the U.S. Department of Energy under Contract DE-AC06-76RLO 1830, pages 22.1 and 22.2, "Application of Long-Term Chemical Biobarriers for Uranium Tailings".**

EXAMINER:

DATE CONSIDERED:

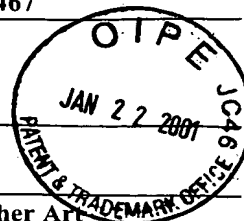
EXAMINER: INITIAL. IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

CHICAGO 147653v1 47309-00025USC1

Form PTO-1449 (modified)		Atty. Docket No. 47309-00025USC1	Serial. No. 08/771,467
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several. sheets if necessary)		Applicant P. Van Voris et al.	
		Filing Date: December 20, 1996	Group: 1502
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	



Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
u	C7	Eschel et al., Chem. Abst. vol. 77 (1972), 71309h. **
	C8	The Agrochemical.s Handbook, 2 nd Ed., D. Hartley, ed. The Royal. Society of Chemistry (1987). **
	C9	The Pesticide Manual., 8 th Ed., C. Worthington, Ed., British Crop Protection Council, 1987, pps. 7179-180. **
	C10	Offenlegunsschrift 1929314; Chem. Abstracts vol. 88 entry 75 506 V. **
	C11	Morrell, J., Woodpole Conference Proceedings , 03/10-11/86. **
	C12	Hayes, W.C., Extending Woodpole Life: Solving a \$5 Billion Dollar a Year Program, Electrical World, p. 41-47, Feb. 1986.
	C13	Cooper C., Selecting Fumigants for Treatment of Internal. Decay in Wood , International. Research Group on World Preservation Meeting, May, 1986. **
	C14	Shepherd, M., Managing America's Wood Pole Inventory, EPRI Journal., September 1987, Vol. 12, No. 6.
	C15	Zable, R. et al. The Fungal. Associates, Detection, and Fumigant Control of Decay in Treated Southern Pine Poles, Final. Report EL-27GA for EPRI Research Project 47191, State University of New York, 1982. **
	C16	Graham et al. Controlling Biological. Deterioration of Wood with Volatile Chemicals, EPRI Report EL-1480 (Oregon State University), 1980. **
	C17	Graham et al. Controlling Biological. Deterioration of Wood with Volatile Chemicals, EPRI Report EL-1480 (Oregon State University), 1977. **
V	C18	Lucas, G. and Rowell, R. Proceedings from the 13 th International. Symposium on Controlled Release of Bioactive Materials (Aug 3-6, 1986), p.75. **

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